EASUREMENT BOOK

Dimensions				Contents	Reference to last Measurement
Number 3	Length 4	Breadth 5	Depth 6	7	8

BR-634/28-A-16

M. A. R. 57 (Rule 116)
Measurement Book

No. B

265830

rial No. 2nd and final Bill

ame of Work ..... From ..... To .....

ame of Contractor of nature of Agency N. Thirunagendra Contractor

ate of commencement of work D.O. Recording 24/11/2016

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Name of Work : Improvements to Roads at Ashraya Layout Main Road and cross-Roads in Ward No. 11 (Kuvempunagar) Vidyarayapura Sub-Division.						
	Estimated cost Rs. 50.00 Lakhs.						
	JOB. No = 011-15-000026.						
	Work order No = EE/BTP/BBMP/E-PMT-08(16533)/WO/48/2015-16-Dt. 16-02-2016						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(1) Earthwork excavation by manual means in ordinary soil, involving an average horizontal throw upto 2mb and an average lift upto 0.50mb, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods etc. Complete as per specifications and directions of Engineer in-charge of the work.						
			Qty vide the MB P. 265876				
						It no (1) = 208.13 m³ @ 79.00/1°	16442.27
	2) Earthwork excavation by manual means in hard						

Serial No. .....

Name of Work .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work
1	2
	soil, involving an a... and an average lift... and sides neatly d... neatly after breaka... and directions of E...
	3) Removing of B.S.

REMENT BOOK

Dimensions				Contents	Reference to last Measurement
er	Length 4	Breadth 5	Depth 6	7	8
	manual means in ordinary				
	horizontal throw upto 2mb				
	0.50mb, Excavated surface				
	dressed, the disposed Earth				
	breaking of clods etc				
	ions and directions of Engineer				
	Qty vide this MB P. 265876				
	It no (1) = 208.13 m³				16442.27
	@ 79.00/m³				
	manual means in hand				

M. A. R. 57 (Rule 116)
Measurement Book

No. B 265831

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Soil, involving an average horizontal throw upto 2mb and an average Lift upto 0.50m, Excavated surface levelled and sides neatly dressed, the disposed Earth to be levelled neatly after breaking of clods etc complete as per specifications and directions of Engineer-in-charge of work.						
	Qty vide this MB. P 265879						
	It no. (2) = 707.97/m³						77876.70
	@ 110/m³						
3)	Removing of B.S. Slab of drains and stacking etc						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Complete as per specifications and direction of Engineers in-charge-of work.						
			Qty vide this MB P.265879				
			It no. ③ = 710.10 m² @ 61/m²				43316.10
(4)	Refixing of stone slab of drains and pointing in CM(1:3) etc complete as per specifications and direction of Incharge of work.						
			Qty as per It no. ③				
			= 710.10 m³ @ 79/m³				56097.90
5)	Construction of Embankment with approved material						

Serial No. .....

Name of Work .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work
1	2
	gravel/murrum with to site, spreading, gra compacting to meet lete as per specific gravel/murrum., Wa by vibrating Roller) and direction of En

SUREMENT BOOK

Dimensions				Contents	Reference to last Measurement
lumber 3	Length 4	Breadth 5	Depth 6	7	8
ations and directions of Engineers					
	Qty side this MB p. 265879				
	It no. ③ = 710.10m² @ 61/m²				43316.10
of drains and pointing in cm(1:3)					
ifications and directions of					
	Qty as per It no. ③				
	= 710.10m³ @ 79/m³				56097.90
ment	With approved material				

M. A. R. 57 (Rule 116)
Measurement Book

No. B

265832

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	gravel/murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement table 300-2 complete as per specifications (which included costing gravel/murrum., watering charges and compacting by vibratory roller) etc complete as per specification. and directions of engineer-in-charge of the work.						
	Qty side this MB p. 265879						14,85,80.00
	It no. ④ = 6464 @ 230/m³						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
6)	Providing and laying in position plain cement concrete of mix 1:4:8 with ope cement @ 180 kgs with 40mm and down size graded granite metal coarse aggregate 0.85 m^3 and fine aggregate @ 0.57 m^3, machine mixed, concrete laid in layers not exceeding 15 cms thickness compacted, in foundation and plinth, including cost of all materials, labour 40 m of machinery, curing etc complete as per specifications and directions of Engineer in charge of work.						
							16,12,467.00

Qty vide this MB P 265881

No (5) = 316.17 m^3 @ 5100/m^3

Serial No. .....

Name of Work .....

Name of Contractor of nature of Ag

Date of commencement of work ...

Date	Full description, etc, of w
1	2
(7)	Providing and c stone many of stones chis than 15 cm each course in etc complete Engineer in ch

...REMENT BOOK

...ber	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
...sing plain cement concrete of ... cement @ 18 kgs with four ... granite metal coarse aggregate ... 0.57 y^3, machine mixed, ... not exceeding 15 cms thickness ... and plinth, including cost of ... hire of machinery, curing ... specifications and directions of ... r. Qty vide this MB P 265881					16,12,467.00

It no (5) = 316.17 y^3 @ 5100/y^3

M. A. R. 57 (Rule 116)
Measurement Book

No. B 265833

Serial No. ....

Name of Work .... From.............................. To..............................

Name of Contractor of nature of Agency ....

Date of commencement of work ....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	(7) Providing and constructing granite (trap) basalt size stone masonry in superstructure with cm 1:6, edges of stones chisel dressed in courses not less than 15 cm high, band stone at 2 m apart in each course including cost of material, labour, curing etc complete as per specifications and directions of Engineer-in-charge of work.						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	CD1	2×1	5.80	0.60	1.00	6.96	
	CD2	2×1	5.20	0.60	1.00	6.24	
	CD3	2×1	3.80	0.60	1.00	4.56	
	repair to CD	2×1	2.00	0.60	0.80	1.92	98172-0
	@ 5050/-		11.120	19.444		19.684	

8) Providing Rulled pointing to coursed stone masonry with C.M 1:4, 20mm deep after raking joints to depth 20mm nicely lining, including costing material, labour, curing complete as per specifications, CM 1:4, etc complete as per specification and direction of Engineering-charge of work.

Serial No. .....

Name of Work .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Nu
1	2	
	CD1	2
	CD2	2
	CD3	2
	Repair to CD	2

9) Providing and laying in of mix 1:2:4 with cem... down graded granite and fine aggregate @ 0.40 laid in layers not exce...

REMENT BOOK

Dimensions				Contents	Reference to last Measurement
er	Length 4	Breadth 5	Depth 6	7	8
1	5.80	0.60	1.00	6.96	
1	5.20	0.60	1.00	6.24	
1	3.80	0.60	1.00	4.56	
1	2.00	0.60	0.80	1.92	98172-00
	Ltd 20	19.44 m³		19.68 m³	

o coursed stone masonry with
- raking joints to depth 20mm
ostry material, labour, curing
cations, CM 1:4, etc complete
direction of Engineering.

M. A. R. 57 (Rule 116)
Measurement Book

No. B

265834

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	CD1	2×1	5.80	-	1.00	11.60	
	CD2	2×1	5.20	-	1.00	10.40	
	CD3	2×1	3.80	-	1.00	7.60	
	Repair to CD	2×1	2.00	-	0.80	3.20	
			Ltd 6	32.40 m² @ 97/m²		32.80 m²	3143.00

9) Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs with 20mm and down graded granite metal coarse aggregate @ 0.878 m³ and fine aggregate @ 0.459 m³, machine mixed concrete laid in layers not exceeding 15 cms thick well compacted

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	In foundations, plinth and cills, including cost of all material, labour, Hom of machinery, curing etc complete as per specifications and directions of Engineer-in-charge of work						
	CD1	1	5.80	1.80	0.10	1.04	
	CD2	1	5.20	1.80	0.10	0.94	
	CD3	1	3.80	1.80	0.10	0.68	
	Ramp	2×1	5.80	1.20	0.15	2.09	
		2×1	5.20	1.20	0.15	1.87	
		2×1	3.80	1.20	0.15	1.37	
						7.99 m^3	43956.00
						@ 5500/m^3	
10)	Providing and laying in position reinforced cement						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	Concrete of design ... With 20 mm and down ... aggregates @ 0.878 m^3 ... superplastiser @ 3... affirmed. 2008 m... not exceeding 15 cms ... foundation plinth and ... staircase, lintels ... attached plantar...

SUREMENT BOOK

Dimensions				Contents	Reference to last Measurement
Number 3	Length 4	Breadth 5	Depth 6	7	8
cells, including costing all materials,					
y, carry etc complete as per					
ns of Engineer-in-charge of work					
1	5.80	1.80	0.10	1.04	
1	5.20	1.80	0.10	0.94	
1	3.80	1.80	0.10	0.68	
2×1	5.80	1.20	0.15	2.09	
2×1	5.20	1.20	0.15	1.87	
2×1	3.80	1.20	0.15	1.37	
				7.99 m³	
			@ 5500/m³		43956.00
portion reinforced cement					

M. A. R. 57 (Rule 116)
Measurement Book

No. B

265835

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Concrete of design mix M.20 with opc cement @ 320kg with 20 mm and down size graded granite metal, coarse aggregates @ 0.878 m³ and fine aggregates @ 0.45 m³ with superplasticiser @ 3 lts conforming to IS-9103-1999 re-affirmed-2008 mechanically mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinths and ground level for floor slabs, staircase, lintels, retaining walls, (any thickness) including attached plinths, columns, piers, abutments, pillars,						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Posts, struts, buttresses, string or lacing courses, parapets coping, bed blocks, anchor blocks, plain window cills, fillets, etc including cost of all material, labour, hoisting machinery etc complete as per specifications and directions of Engineer-in-charge of work.						
	for CD Deck & Lab CA1	1	5.80	1.50	0.23	2.00	
	CA2	1	5.20	1.50	0.23	1.79	
	CA3	1	3.80	1.50	0.23	1.31	
	repairs to CA	1	6.85	1.50	0.23	2.35	
						7.45 m³	
						@ 5300/m³	39485.00

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agen
Date of commencement of work .....

Date	Full description, etc, of work
1	2
(4)	Providing mild st... including straight... position, lapping ... tying with bind... members wherev... costing material complete as per in-charge of the works

REMENT BOOK

er	Dimensions Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
ng or locking courses, parapets					
or blocks, plain window sills,					
all material, labour, tools					
per specifications and directions					
work.					
1	5.80	1.50	0.23	2.00	
1	5.20	1.50	0.23	1.79	
1	3.80	1.50	0.23	1.31	
1	6.85	1.50	0.23	2.35	
				7.45 cum	39485.00
				@ 5300/-	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 265836

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
(4)	Providing mild steel reinforcements for RCC work including straighting, cutting, bending, hooking, placing in position, lapping and or welding wherever required. tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design costing material, labour, tools of machinery etc complete as per specifications and directions of Engineer in charge of the work.						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
			Qty vide this MB.p 265884				
			It no. (8) = 6.71 Qtl @ 8375/Qtl				56196.25
12)	Providing and removing, centering, shuttering, struting propping etc and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses costing all material, labour, etc complete as per specification and directions of engineer-in-charge of the work.						
			Qty vide this MBp 265883				6683.60
			It no (7) = 21.56 m^2 @ 3100/m^2				

Serial No. .....

Name of Work .....

Name of Contractor of nature of Agen

Date of commencement of work .....

Date	Full description, etc, of work
1	2
13)	Providing and lay of mix M-20 with and down size a @ 0.64 m^3 and fir plasticer @ 3 lts 2008, machine m exceeding 15 cms th plinth, and cills, i

REMENT BOOK

Dimensions				Contents	Reference to last Measurement
er	Length 4	Breadth 5	Depth 6	7	8
	Qty vide this MB.p 265884				
	It no (8) = 6.71 Qtl @ 8375/Qtl				56196.25
	centering, shuttering, strutting of form wore for vertical any thickness, including attached and string courses costing complete as per specification neer-in-charge of the work.				
	Qty vide this MBp 265883				6683.60
	It no (7) = 21.56 m² @ 3100/m²				

M. A. R. 57 (Rule 116)
Measurement Book

No. B 265837

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	13) Providing and laying in position plain cement concrete of mix M-20 with OPC cement @ 300kg with 20mm and down size graded granite metal coarse aggregate @ 0.64 m³ and fine aggregate @ 0.43 m³ with super-plasticizer @ 3lts confirming to IS 9103-1999 re-affirmed 2008, machine mixed concrete laid in layer not exceeding 15 cms thick well compacted, in foundation plinth, and c.lls, including costing all material, labour.						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Hour of machinery, curing etc complete as per specifications and directions of engineer - in charge of the work.						
	for Cement Concrete Road						
	(a) 6th Cross. Singapura (0.00 to 64.00 wts)	1	30.00	$\frac{5.3+6.18}{2}$	0.10	17.18	
		1	34.00	$\frac{6.15+5.6}{2}$	0.10	19.98	
	(b) - 4th Cross - Konakadasa Road (0.00 to 63.30 wts)	1	30.00	$\frac{7.35+6.2}{2}$	0.10	20.33	
		1	33.30	$\frac{6.2+4.9}{2}$	0.10	18.48	
	(c) - 2nd Cross Tippu Sultan - Road (0.00 to 63.00 wts)	1	30.00	$\frac{4.35+4.6}{2}$	0.10	13.43	
		1	33.00	$\frac{4.6+5.4}{2}$	0.10	16.50	

Serial No. .....

Name of Work .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	N
1	2	
	(d) Cross - Road	
	(e) Masidi Road	

UREMENT BOOK

Dimensions				Contents	Reference to last Measurement
umber 3	Length 4	Breadth 5	Depth 6	7	8
...ny ell complete as per specifi- ...f engineer - in charge of the					
1	30.00	$\frac{5.3+6.18}{2}$	0.10	17.18	
1	34.00	$\frac{6.15+5.6}{2}$	0.10	19.98	
1	30.00	$\frac{7.35+6.2}{2}$	0.10	20.33	
1	33.30	$\frac{6.2+4.9}{2}$	0.10	18.48	
1	30.00	$\frac{4.35+4.6}{2}$	0.10	13.43	
1	33.00	$\frac{4.6+5.4}{2}$	0.10	16.50	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

265838

Date 1	Full description, etc. of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	(d) Cross-Road	1	30.00	$\frac{2.25+3.6}{2}$	0.10	8.78	
		1	24.60	$\frac{3.6+5.4+6.7}{3}$	0.10	12.87	
		1	11.20	$\frac{4.2+4.7}{2}$	0.10	4.98	
		1	3.70	$\frac{1.7+2.5}{2}$	0.10	0.78	
		1	9.50	$\frac{1.5+2.1}{2}$	0.10	1.71	
	(e) Masidi Road	1	30.00	$\frac{5.8+5.0}{2}$	0.10	16.20	
		1	30.00	$\frac{5.0+5.0}{2}$	0.10	15.00	
		1	15.40	$\frac{5.0+4.0}{2}$	0.10	6.93	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	35.50	$\frac{5.1+5.0}{2}$	0.10 =	17.93 y^3	
		1	32.00	$\frac{5.1+5.0}{2}$	0.10 =	16.16	
	Ltd to	207.18 y^3 @ 6200/y^3				207.22 y^3	12,84,516.00
14)	Vaccum De Watering With vaccum pump and suction mat and compaction With skin floater clubbed With floating disc including cost of generator Home of Machinery screed vibrating, power floater, blade and disc etc complete as per specifications and directions of Engineer-in-charge of the Work.						
	a) 6th Cross. Singapura CC. Road	1	30.00	$\frac{5.3+6.15}{2}$ =		171.75 y^2	
		1	34.00	$\frac{6.15+5.6}{2}$ =		199.75	

Serial No. .....

Name of Work .....

Name of Contractor of nature of Agency

Date of commencement of work .....

Date	Full description, etc, of work
1	2
	b) . 4th Cross. Kanakadara Road
	c) - 2nd Cross. Tippu Sultan Road
	d) Cross-Road

ASUREMENT BOOK

Dimensions				Contents	Reference to last Measurement
Number 3	Length 4	Breadth 5	Depth 6	7	8
1	35.50	$\frac{5.1+5.0}{2}$	0.10 =	17.93 y^3	
1	32.00	$\frac{5.1+5.0}{2}$	0.10 =	16.16	
207.18 y^3 @ 6200/y^3				207.22 y^3	12,84,516.00
With vacuum pump and suction					
With skin floater clubbed with					
cost of generator Homog					
ating, power floater, blade					
as per specifications and directions					
e of the work.					
1	30.00	$\frac{5.3+6.15}{2}$	=	171.75 y^2	
1	34.00	$\frac{6.15+5.6}{2}$	=	199.75	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

265839

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	(b). 4th Cross - Kanakadasa Road	1	30.00	$\frac{7.35+6.2}{2}$	=	203.25	
		1	33.30	$\frac{6.20+4.9}{2}$	=	184.82	
	(c) - 2nd Cross. Tippy Sultan Road	1	30.00	$\frac{4.35+4.6}{2}$	=	134.25	
		1	33.00	$\frac{4.6+5.4}{2}$	=	165.00	
	(d) Cross - Road	1	30.00	$\frac{2.25+3.6}{2}$	=	128.74	
		1	24.60	$\frac{3.6+5.4+6.7}{3}$	=	128.74	
		1	11.20	$\frac{4.2+4.7}{2}$	=	49.84	
		1	3.70	$\frac{1.70+2.8}{2}$	=	7.77	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	c) Masidi Road	1	9.50	$\frac{1.50+2.10}{2}$		= 17.10	
		1	30.00	$\frac{5.80+5.00}{2}$		= 162.00	
		1	30.00	$\frac{5.0+5.0}{2}$		= 150.00	
		1	15.40	$\frac{5.0+4.0}{2}$		= 69.30	
		1	35.50	$\frac{5.10+5.0}{2}$		= 179.28	
		1	32.00	$\frac{5.1+5.0}{2}$		= 161.60	
						2072.19 m2	
				Ltd to		2071.80 m2	
						@ 100.00/m²	207180.00
15)	Providing groove cutting for cement pavement with						

C&Fee

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ,
ಯಲಹಂಕ ವಲಯ,
ಬಿ. ಬೆ. ಮ ಕಾ. ಬೆಂಗಳೂರು-97.

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	5mm to 10 mm and of cutting machine, a including cost of blade, and providing sand w etc including conveya and lift charges and as per drawing etc c direction of Engineer

EMENT BOOK

Dimensions			Contents	Reference to last Measurement
Length 4	Breadth 5	Depth 6	7	8
9.50	1.50+2.10 / 2		= 17.10	
30.00	5.80+5.00 / 2		= 162.00	
30.00	5.0+5.0 / 2		= 150.00	
15.40	5.0+4.0 / 2		= 69.30	
35.50	5.10+5.0 / 2		= 179.28	
32.00	5.1+5.0 / 2		= 161.60	
			2072.1942	
	Ltd to		2071.8042	
			@ 100.00/-	207180.00

1 for cement pavement with

M. A. R. 57 (Rule 116)
Measurement Book

No. B

265840

Serial No. ..... From..... To.....

Name of Work .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	5mm to 10 mm and depth 80 - 100mm including cost of cutting machine, generator and 40m of machinery, including cost of blade, coolant etc, including clearing of grooves, and providing sand and hot bitumen, and filler metal etc including conveyance of all materials, labour, lead and lift charges and all other incidental charges etc as per drawing etc complete as per specification and direction of engineer-in-charge of work.						
		2×1	6.70	–	–	13.40 cm	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		3	5.00	-	-	15.00 m²	
		3	4.70	-	-	14.10	
		3	5.00	-	-	15.00	
		3	1.50	-	-	~~4.5~~ 4.5	
		3	4.00	-	-	12.00	
		3	5.00	-	-	15.00	
		3	4.00	-	-	12.00	
						96.00 m²	
						@ 130/m²	12480.00

16) Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the material with water at one in mechanical mix plant carriage of mixed

Serial No. .....

Name of Work .....

Name of Contractor of nature of Agen

Date of commencement of work .....

Date	Full description, etc, of work
1	2
	material, by ti
	With power in su
	surface and comp
	the desired dens
	and directions of
17)	cleaning the exis

...REMENT BOOK

Dimensions				Contents	Reference to last Measurement
...ber 3	Length 4	Breadth 5	Depth 6	7	8
...	5.00	-	-	15.00 mt	
...	4.70	-	-	14.10	
...	5.00	-	-	15.00	
3	1.50	-	-	~~4.5~~ 4.5	
3	4.00	-	-	12.00	
3	5.00	-	-	15.00	
3	4.00	-	-	12.00	
				96.00 mt	
				@ 130/m³	12480.00

...eading and compacting graded ...t mix macadam specification ...th material with water at ... plant carriage of mixed

M. A. R. 57 (Rule 116)
Measurement Book

No. B 265841

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	material, by tipper to site, laying in uniform layers with power in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density etc complete as per specifications and directions of engineer-in-charge of the work.						
		Qty vide this MB. P 265883					
		It no. (6) = 354 m³ @ 1500/m³					5,31,000.00
17)	Cleaning the existing WBM Road surface including						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	removing of binding materials and other foreign matter with wire brushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and or compressed air to receive bitumen treatment including cost of all materials labour tools & machineries, carried complete as per specifications and direction of Engineer-in-charge of the work						
	(a) 4th main Road Singapura	1	30.00	$\frac{8.144.8}{2}$	=	193.50	
		1	30.00	$\frac{4.8+4.1}{2}$	=	141.00	
		1	30.00	$\frac{4.6+4.8}{2}$	=	141.00	

Serial No. .....

Name of Work .....

Name of Contractor of nature of Agency ...

Date of commencement of work .....

Date	Full description, etc, of work
1	2
	(b) - 1st cross
	(c) - 2nd cross
	(d) - 3rd cross
	(e) - 4th cross
	(f) - 5th cross
	(g) - 6th cross

REMENT BOOK

Dimensions				Contents	Reference to last Measurement
er	Length 4	Breadth 5	Depth 6	7	8
...ah and other foreign matter					
...mall picks, sweeping with					
...nd finally dusting with old					
...ned air to receive bitumen					
...all materials labour Hom of					
...ete as per specifications and					
...charge of the work					
1	30.00	$\frac{8.1+4.8}{2}$	=	193.50	
1	30.00	$\frac{4.8+4.1}{2}$	=	141.00	
1	30.00	$\frac{4.6+4.8}{2}$	=	141.00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 265842

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		1	30.00	$\frac{4.8+4.0}{2}$	=	132.00	
		1	25.00	$\frac{4.0+5.2}{2}$	=	115.00	
	(b) - 1st CROSS	1	22.30	$\frac{4.20+4.00}{2}$	=	91.43	
	(c) - 2nd CROSS	1	21.70	$\frac{4.3+4.7}{2}$	=	97.65	
	(d) - 3rd CROSS	1	23.00	$\frac{3.8+4.4}{2}$	=	94.30	
	(e) - 4th CROSS	1	21.50	$\frac{4.4+4.4}{2}$	=	94.60	
	(f) - 5th CROSS	1	20.48	$\frac{5.0+4.8}{2}$	=	100.35	
	(g) - 6th CROSS	1	18.50	$\frac{5.0+4.8}{2}$	=	90.65	

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	(h) Sandy Weed Works opp. Road	1	30.00	$\frac{4.4+4.8}{2}$		= 138.00 m^2	
		1	30.00	$\frac{4.8+4.3}{2}$		= 138.50	
		1	30.00	$\frac{4.3+4.3}{2}$		= 129.00	
		1	30.0	$\frac{4.3+4.3}{2}$		= 129.00	
		1	17.80	$\frac{4.3+4.3}{2}$		= 76.54	
	(i) - 5th Main Road	1	30.00	$\frac{4.2+4.5}{2}$		= 130.50	
		1	30.00	$\frac{4.5+4.5}{2}$		= 135.00	
		1	30.00	$\frac{4.5+4.5}{2}$		= 135.00	
		1	15.00	$\frac{4.5+4.5}{2}$		= 67.50	28,320.00
						2368.52 m^2	

@ 12.00/m^2 Ltd to 2360.00 m^2

Serial No. .....

Name of Work .....

Name of Contractor of nature of Agen

Date of commencement of work .....

Date 1	Full description, etc, of work 2
	(18) Providing and a of medium por bar @ 1.10 kg/ s.r. bitumen filled with spr surface) includ Machinery etc directions of Eng

...REMENT BOOK

Dimensions				Contents	Reference to last Measurement
...nber 3	Length 4	Breadth 5	Depth 6	7	8
1	30.00	$\frac{4.4+4.8}{2}$		= 138.00 m²	
1	30.00	$\frac{4.8+4.3}{2}$		= 138.50	
1	30.00	$\frac{4.3+4.3}{2}$		= 129.00	
1	30.0	$\frac{4.3+4.3}{2}$		= 129.00	
1	17.80	$\frac{4.3+4.3}{2}$		= 76.54	
1	30.00	$\frac{4.2+4.5}{2}$		= 130.50	
1	30.00	$\frac{4.5+4.5}{2}$		= 135.00	
1	30.00	$\frac{4.5+4.5}{2}$		= 135.00	
1	15.00	$\frac{4.5+4.5}{2}$		= 67.50	28,320.00
				2368.52 m²	

2.00 m² Ltd to 2360.00 m²

M. A. R. 57 (Rule 116)
Measurement Book

No. B 265843

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	(18) Providing and applying primer coat for surfaces of medium porosity like cement stabilised soil base @ 1.10 kg/m² over prepared surface with S.S. bitumen emulsion using bitumen tanker fitted with spray sets (excluding clearing of Road surface) including cost of all materials, labour, hire of machinery etc complete as per specifications and directions of engineer-in-charge of work						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
			qty as per. Ex No (17) = 2360 m² @ 78/m²				1,84,080.00
(19)	Providing and laying semi dense bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, Rolling with smooth wheeled, vibratory and tandem-Roller to achieve the desired compaction and per month specification a clause No-508 complete in all respects as per						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Age
Date of commencement of work .....

Date	Full description, etc, of wo
1	2
	Specification u dense paver a SS-grade. etc of Engineer-in-C (a) Singapura-4th mm

...REMENT BOOK

Dimensions				Contents	Reference to last Measurement
...mber 3	Length 4	Breadth 5	Depth 6	7	8
	qty as per. 17 No (17) = 2360 m² @ 78/m²				1,84,080.00

...ri dense bituminous concrete ...of specified grading, premixed ...r and filler, transporting the hot ...ing with a paver finisher to the ...and alignment, Rolling with smooth tandem-Roller to achieve the ...and per month specification a ...plete in all respects as per

---

M. A. R. 57 (Rule 116)
Measurement Book

No. B 265844

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Specifications using 100-120 TPH capacity Hmp with sensor paver grading. E (25-30mm) with 5% CRMB-55 grade. etc complete as per specifications and directions of Engineer-in-charge of the work.						
	(a) Singapura-4th Main Road	1	30.00	$\frac{8.1+4.8}{2}$	0.025	= 4.84	
		1	30.00	$\frac{4.8+4.6}{2}$	0.025	= 3.53	
		1	30.00	$\frac{4.6+4.8}{2}$	0.025	= 3.53	
		1	30.00	$\frac{4.8+4.0}{2}$	0.025	= 3.30	

24/4

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	25.00	$\frac{4.0+5.20}{2}$	0.025	= 2.88	
	(b) - 1st Cross - Road	1	22.30	$\frac{4.2+4.0}{2}$	0.025	= 2.39	
	(c) - 2nd Cross - Road	1	21.70	$\frac{4.30+4.7}{2}$	0.025	= 2.44	
	(d) - 3rd Cross - Road	1	23.00	$\frac{3.8+4.4}{2}$	0.025	= 2.36	
	(e) - 4th Cross - Road	1	21.50	$\frac{4.4+4.4}{2}$	0.025	= 2.37	
	(f) - 5th Cross - Road	1	20.48	$\frac{5.0+4.8}{2}$	0.025	= 2.51	
	(g) - 6th Cross - Road 24/11	1	18.50	$\frac{5.0+4.8}{2}$	0.025	= 2.27	
	h) - Sandya Wood Works opp. Road	1	30.00	$\frac{4.4+4.8}{2}$	0.025	= 3.42	
		1	30.00	$\frac{4.8+4.3}{2}$	0.025	= 3.41	
		1	30.00	$\frac{4.3+4.3}{2}$	0.025	= 3.23	

Serial No. .....

Name of Work .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Nu
1	2	
	Checked	
	(i) - 5th main Road 24/11	

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ್ಗ,
ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ,
ಯಲಹಂಕ ವಲಯ,
ಬ. ಬೆಂ. ಮ ಸಾ., ಬೆಂಗಳೂರು-97

UREMENT BOOK

Dimensions				Contents	Reference to last Measurement
umber 3	Length 4	Breadth 5	Depth 6	7	8
1	25.00	4.0+5.20 / 2	0.025 = 2.88		
1	22.30	4.2+4.0 / 2	0.025 = 2.39		
1	21.70	4.30+4.7 / 2	0.025 = 2.44		
1	23.00	3.8+4.4 / 2	0.025 = 2.36		
1	21.50	4.4+4.4 / 2	0.025 = 2.37		
1	20.48	5.0+4.8 / 2	0.025 = 2.51		
1	18.50	5.0+4.8 / 2	0.025 = 2.27		
1	30.00	4.4+4.8 / 2	0.025 = 3.48		
1	30.00	4.8+4.3 / 2	0.025 = 3.47		
1	30.00	4.3+4.3 / 2	0.025 = 3.23		

M. A. R. 57 (Rule 116)
Measurement Book

No. B 265845

Serial No. ..... From..... To.....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Checked	1	30.00	4.3+4.3 / 2	0.025 =	3.23 m^3	
		1	17.80	4.3+4.3 / 2	0.025 =	1.91	
	(1) - 5th main Road 24	1	30.00	4.2+4.5 / 2	0.025 =	3.26	
		1	30.00	4.50+4.5 / 2	0.025 =	3.38	
		1	30.00	4.5+4.5 / 2	0.025 =	3.38	
		1	15.00	4.5+4.5 / 2	0.025 =	1.69	
						59.21 m^3	
					Ltd to	59.00 m^3	6,90,300.00

@11700/m^3

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರಾಧಿಕಾರಿ
ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ,
ಯಲಹಂಕ ವಲಯ,
ಬಿ. ಬೆ. ಮ. ಸಾ., ಬೆಂಗಳೂರು-97

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
20)	Lead for Disposal of debris shall be payable at carriage rates by mechanical means including loading and unloading etc complete as per specifications and direction of engineer-in-charge of the work						
		qty as per It no. (1+2)					
		= 208.13 + 707.97 =				916.10 m³	
					Ltd no.	659.59 m³	49469=25
					@	75/m³	
	Certificate						
	① Certified that the contractor work done satisfactorily.				Total Rs		51,89,749=8
	② The contractor removed the debris from site.						

AEE (VRP) SD

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency ....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	WO
	WO
	WO 4
	W
	W

...SUREMENT BOOK

Dimensions				Contents	Reference to last Measurement
Number 3	Length 4	Breadth 5	Depth 6	7	8
...debris shall be payable at Carriage ...means including loading and unloading ...ication and direction of Engineer -					
9th as per It no. (1+2) = 208.13+707.97 =				916.10 m³	
			Ltd to.	659.59 m³	49469=25
				@ 75/m³	
...tractor work				Total Rs	51,89,749=...
...y. ...ed the debris from					

AEE (VRP) SD

M. A. R. 57 (Rule 116)
Measurement Book

No. B 265846

Serial No. ..... From ..... To .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

W0434

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		W0442					Hosbal Nagar
		W0446				W0448	
		W0452 Tipu sultan Road			W0454 Periyar Road		C.C. Roads
		W0456					
		W0468					

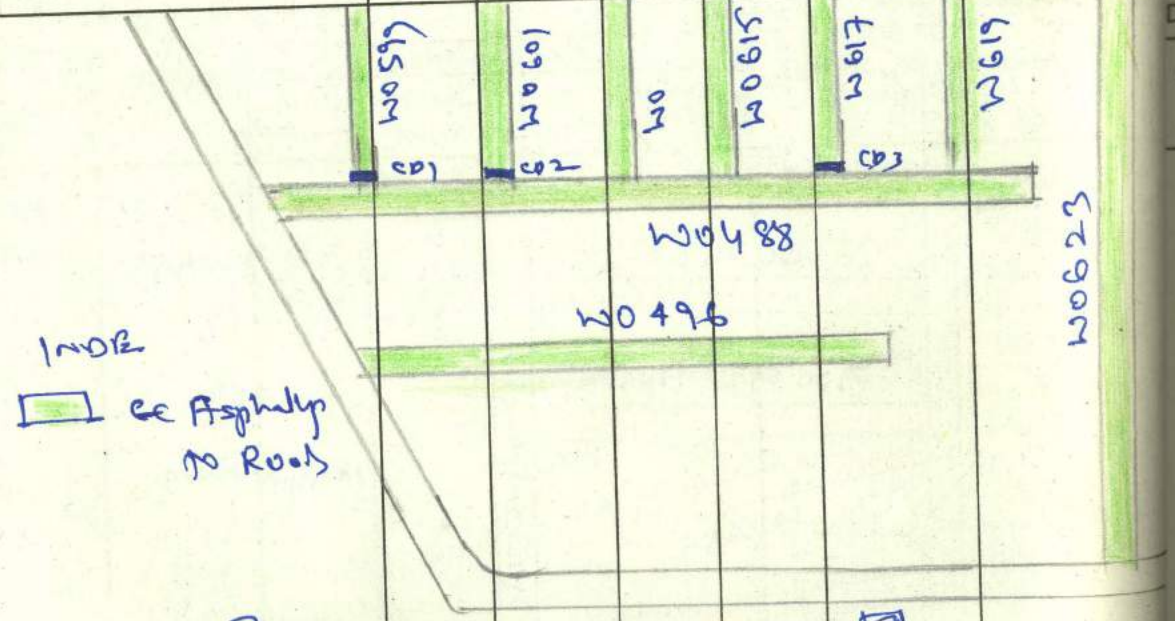
Hosbal Nagar

24/11/2016

AEE (VRP) SD 24/11/16

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		W0597 CD1	W0601 CD2	W0	W0615	W617 CD3	W619
							W0623



24/11/2016 Singapura G.K. Muniyappa Complex

AEE (VRP) SD

BR/634/28-11-16.

Serial No. .....

Name of Work .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Nu
1	2	

ಬಿಲ್ಲು ಮೊಬಲಗು ರೂ. 518974

ಗಳ್ಳ ಕಾಮ ಮಾಡಿದೆ ಇದರಲ್ಲಿ ರೂ. 3

ಹೊಯಾಗಿ ಮಾಡಿಕೊಂಡು ಬಾಕಿ ಮೊಬಲಗು

ರೂ. 4799104 - 10

ಚೆಕ್ ಮಾಡಿಕೊಂಡು ಕೊಡಲಾಗಿದೆ

Krishnagowda

EASUREMENT BOOK

Dimensions				Contents	Reference to last Measurement
Number 3	Length 4	Breadth 5	Depth 6	7	8
W0597	W0601	W0	W0615	W617	W619
CD1	CD2			CD3	
		W0488			W0623
		W0496			

4/11/2016 Singapura GK Muniyappa Complex

AEE (VRP) SD

BR/634/28-11-16.

M. A. R. 57 (Rule 116)
Measurement Book

No. I

17

erial No. .....

ame of Work ..... From..... To.....

ame of Contractor of nature of Agency .....

ate of commencement of work .....

Date	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
						Total Rs:	51,89,749-00
						ST-	51897-00
						VAT-	207590-00
						Cess-	51897-00
						CBF-	5190-00
						LR-	69871-00
						Penalty-	4200-00
						Adj-	3,90,645-00
						Cheque:	47,99,104-00

5189749-00

390645-

4799104-00

28/11/16